Subject: [Fwd: CEOS'99 abstract submission (#124)]
Date: Tue, 15 Jun 1999 17:21:29 -0700
From: Scott Hensley <sh@kaitak.jpl.nasa.gov>
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P.S. Kaitak is the name of the old airport in Hong Kong.

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Abstract # 124

BASELINE CALIBRATION OF THE GEOSAR INTERFEROMETRIC MAPPING INSTRUMENT

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Abstract:

GeoSAR is a dual frequency, X-Band and P-Band, interferometric mapping radar flown on a Gulfstream II with a nominal flying altitude of 10000 and a swath width of 10 km on both left and right sides of the aircraft. The radar is designed to generate high resolution and high accuracy digital elevation maps both above and below the vegetation canopy. In order to generate the high accuracy digital elevations models it is necessary to have extremely precise knowledge of the interferometric baseline, approximately .1 mm for the X-band system and 3 mm for the P-band system. Baseline knowledge to this level of accuracy is achieved through a combination of active

baseline measurement using a Laser Baseline Metrology System (LBMS) and baseline calibration using an accurately surveyed array of corner reflectors. In this paper we describe the LBMS system used to measure the dynamic component of the interferometric baseline and the least squares procedure used to estimate all three compon!
ents of the inteferometric baseline based on differences between calculated and surveyed corner reflector locations.

Keywords: SAR,interferometry,baseline

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We look forward to seeing you in October 1999 in Toulouse for CEOS'99.

Kind Regards,

Maurice Borgeaud
Responsible for the CEOS'99 web page automation

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